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L2	201	robot\$1 and simulation\$1 and ((data adj flow) or dataflow) and @ad<"20011101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/10/30 16:22



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1 Semiconductor manufacturing: Semiconductor process equipment modeling: using emulation to validate a cluster tool simulation model



H. Todd LeBaron, Ruth Ann Hendrickson

December 2000 Proceedings of the 32nd conference on Winter simulation

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Getting the most productivity per square foot of clean room space is a common goal for today's semiconductor fabs. Cluster tool throughput is an important factor in a tool's productivity index. Maximizing and accurately predicting throughput is a high priority in the cluster tool market. This paper presents a flexible and sufficiently accurate cluster tool simulation model. The simulation model can run as an emulator, using the real-world cluster tool scheduler (CTS), or as a stand-alone simulat ...

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3 A hybrid numeric/symbolic program for checking functional and timing compatibility of synthesized designs



Chih Tung Chen, Alice C. Parker

May 1994 Proceedings of the 7th international symposium on High-level synthesis

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A modular approach to simulation of robotic systems

D. J. Medeiros, R. P. Sadowski, D. W. Starks, B. S. Smith

January 1980 Proceedings of the 12th conference on Winter simulation

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This paper presents the results of a simulation effort performed as part of the ICAM robotics program. The initial Q-GERT simulation model is briefly described, followed by the

presentation of a modular approach to simulation of robotic systems. In this approach, predefined Q-GERT modules, described by simple block diagrams, are assembled to produce a complete model. The system design logic is discussed and the available modules are briefly described. Examples are presented in block diagram ...

5 <u>Increasing the power and value of manufacturing simulation via collaboration with</u>



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6 An approach to using a data base management system in manufacturing system





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The organization and management of the data in a computer simulation of a discrete event system can be a significant task. This task can be facilitated by linking a data base management system with the computer language used for the simulation. This paper presents such a linkage using dBase III for the data base management system and TURBO-PASCAL for the computer language. dBase provides the means to file system model parameters, simulation input data and simulation output data. Since dBase ...

7 The ControlShell component-based real-time programming system, and its



application to the Marsokhod Martian Rover

Stan Schneider, Vincent Chen, Jay Steele, Gerardo Pardo-Castellote November 1995 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1995 workshop on Languages, compilers, & tools for real-time systems

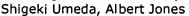
LCTES '95, Volume 30 Issue 11

Publisher: ACM Press

Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, index terms

Real-time system software is notoriously hard to share and reuse. This paper walks through the methodology and application of ControlShell, a component-based programming system for real-time system software development. ControlShell combines graphical system-building tools, an execution-time configuration manager, a real-time matrix package, and an object name service into an integrated development environment. It targets complex systems that require on-line reconfiguration and strategic control ...

An integration test-bed system for supply chain management



December 1998 Proceedings of the 30th conference on Winter simulation

Publisher: IEEE Computer Society Press

Full text available: 📆 pdf(97.66 KB) Additional Information: full citation, references, citings, index terms

Development of generic simulation models to evaluate wafer fabrication cluster tools Neal G. Pierce, Michael J. Drevna





December 1992 Proceedings of the 24th conference on Winter simulation

Publisher: ACM Press

Full text available: 🔁 pdf(449.87 KB) Additional Information: full citation, references, citings, index terms

10 A real world object modeling method for creating simulation environment of real-time



systems

Ji Y. Lee, Hye J. Kim, Kyo C. Kang

October 2000 ACM SIGPLAN Notices, Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '00, Volume 35 Issue 10

Publisher: ACM Press

Full text available: pdf(405.18 KB)

Additional Information: full citation, abstract, references, citings, index terms

Most real-time embedded control software feature complex interactions with asynchronous inputs and environment objects, and a meaningful simulation of a real-time control software specification requires realistic simulation of its environment. Two problems that need to be addressed in the simulation of a target software system and its environment: First, integration and simulation of the specifications of a target software system and its artificial environment are often performed too late in the ...

Keywords: real-time control software, requirement specification, simulation, validation, verification

11 Applying the simulation process: simulation study of HDA parts degreaser

Robert Kittell, Ann Dunkin

December 1991 Proceedings of the 23rd conference on Winter simulation

Publisher: IEEE Computer Society

Full text available: pdf(475.07 KB) Additional Information: full citation, references, index terms

12 Future of simulation: Simulation in the international IMS MISSION project: the IMS MISSION architecture for distributed manufacturing simulation



Charles McLean, Frank Riddick

December 2000 Proceedings of the 32nd conference on Winter simulation

Publisher: Society for Computer Simulation International

Full text available: Ddf(269.47 KB) Additional Information: full citation, abstract, references, citings

This paper presents an overview of a neutral reference architecture for integrating distributed manufacturing simulation systems with each other, with other manufacturing software applications, and with manufacturing data repositories. Other manufacturing software applications include, but are not limited to systems used to: 1) design products, 2) specify processes, 3) engineer manufacturing systems, and 4) manage production. The architecture identifies the software building blocks and interface ...

13 Mobile robot simulation of clinical laboratory deliveries

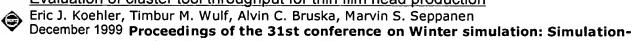
Manuel D. Rossetti, Amit Kumar, Robin A. Felder

December 1998 Proceedings of the 30th conference on Winter simulation

Publisher: IEEE Computer Society Press

Full text available: pdf(108.53 KB) Additional Information: full citation, references, index terms

14 Evaluation of cluster tool throughput for thin film head production



--a bridge to the future - Volume 1

Publisher: ACM Press

Full text available: 📆 pdf(83.62 KB) Additional Information: full citation, references, citings, index terms

15 Annotated bibliography of the proceedings of the annual simulation symposium (1968-1991)



Ross A. Gagliano, Martin D. Fraser

April 1992 Proceedings of the 25th annual symposium on Simulation

Publisher: IEEE Computer Society Press

Full text available: pdf(1.45 MB) Additional Information: full citation, references, index terms

16 Simulation and advanced manufacturing system design



Van B. Norman, T. A. Norman

December 1986 Proceedings of the 18th conference on Winter simulation

Publisher: ACM Press

Full text available: pdf(413.46 KB) Additional Information: full citation, abstract, index terms

A case study is presented which demonstrates the design and implementation of an integrated manufacturing system using AutoMod, an integrated simulation tool developed by AutoSimulations, Inc.

17 Simulation modelling support via network based concepts

Stephen C. Mathewson

December 1990 Proceedings of the 22nd conference on Winter simulation

Publisher: IEEE Press

Full text available: pdf(953.01 KB) Additional Information: full citation, references, citings, index terms

18 Implementation of the data-flow synchronous language SIGNAL





Pascalin Amagbégnon, Loïc Besnard, Paul Le Guernic

June 1995 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1995 conference on Programming language design and implementation PLDI '95, Volume 30

Publisher: ACM Press

Full text available: pdf(1.03 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents the techniques used for the compilation of the data-flow, synchronous language SIGNAL. The key feature of the compiler is that it performs formal calculus on systems of boolean equations. The originality of the implementation of the compiler lies in the use of a tree structure to solve the equations.

19 Planning of production and material flow systems by inter-interactive computer graphics simulation



Werner Großeschallau, Robert Heinzel

January 1984 Proceedings of the 17th annual symposium on Simulation

Publisher: IEEE Press

Full text available: pdf(747.81 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The INSIMAS (Interactive Simulation of Material Flow-Systems) simulation system is described. The systems-concept corresponds to the four planning steps design, analysis, simulation and evaluation. Each step is supported by interactive computer graphics procedures. The simulation run can be represented on a graphics screen by moving of objects (vehicles) through the simulated network. Main applicatio ...

20 Real-time hierarchically distributed processing network interaction simulation Wayne F. Zimmerman, Chung-I Wu January 1988 Proceedings of the 21st annual symposium on Simulation



Publisher: IEEE Computer Society Press

Additional Information: full citation, abstract, references, index terms Full text available: pdf(1.26 MB)

The Telerobot Testbed is a hierarchically distributed processing system which is linked together through a standard, commercial Ethernet. Standard Ethernet systems are primarily designed to manage non-real-time information transfer. Therefore, collisions on the net (i.e., two or more sources attempting to send data at the same time) are managed by randomly rescheduling one of the sources to retransmit at a later time interval. Although acceptable for transmitting noncritical data such as ma ...

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John Colter, Netscape Navigator

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